

MACHINE CHECKLIST

THIS BLOCK FOR MSHA USE ONLY

MA # 20

REV. LEVEL

INSPECTORS NAME AND INITIALS

DATE

MAKE AND MODEL NO.

MACHINE TYPE

MACHINE SERIAL NUMBER

MACHINE APPROVAL NUMBER

"If an MSHA Part 36 approval plate has been affixed to this machine, it must meet the requirements of Part 36 Title 30 Code of Federal Regulations. It is the responsibility of the user to ensure that this machine is maintained in permissible condition in accordance with this checklist.

"ALL INSPECTIONS AND TEST SHALL BE PERFORMED IN FRESH AIR."

PERMISSIBILITY

1. For a complete permissibility evaluation, this checklist must be used in conjunction with a power system checklist T1158 and electrical system checklist T1139.
2. The design of the exhaust conditioner limits permissible operation to grades-not exceeding 20%.
3. Due to braking capability limitation, this machine shall not be operated on grades greater than 30%.

NOTE: When operated in areas which do not require permissible machines, this machine can be operated on grades greater than the 20% grade limitation due to the design of the exhaust conditioner, but in no case can the machine be operated on grades greater than 30% due to braking capability limitations.

APPLICABLE APPROVAL
31-99-0

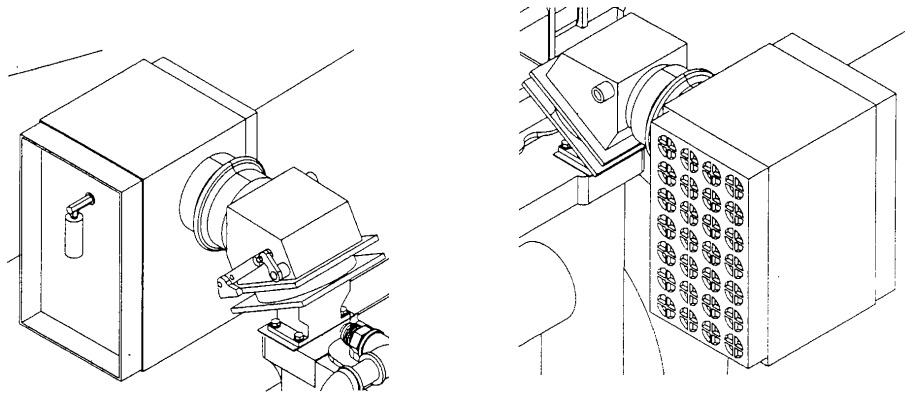
SHEET # DM-45
LAST REV. 11-23-97
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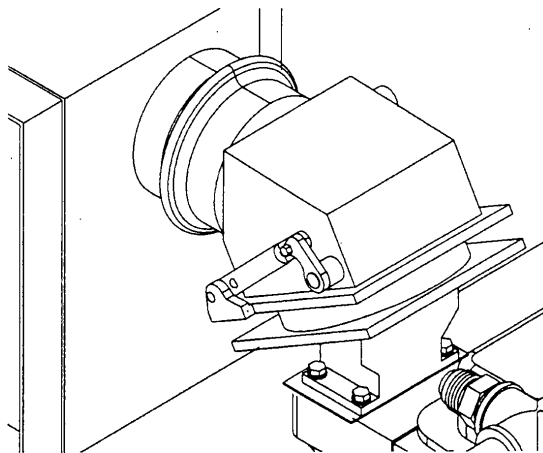
J . H . F L E T C H E R & C O .

The following test and inspection procedures shall be conducted on the surface or in mine ventilation intake air only.

INTAKE SYSTEM (Engine Combustion Air)



- [WEEKLY] 1. () Restriction on air cleaner is not showing RED.
- [WEEKLY] 2. () Intake piping from air cleaner to air shut-off valve has no holes and is securely fastened.
- [WEEKLY] 3. () Flame arrestor is installed and properly secured.

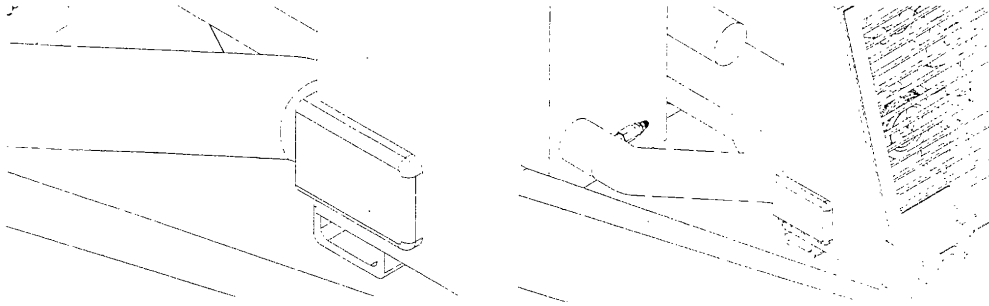


(WEEKLY) - DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE
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ACCORDANCE WITH 30 CFR, SECTION 75.1914

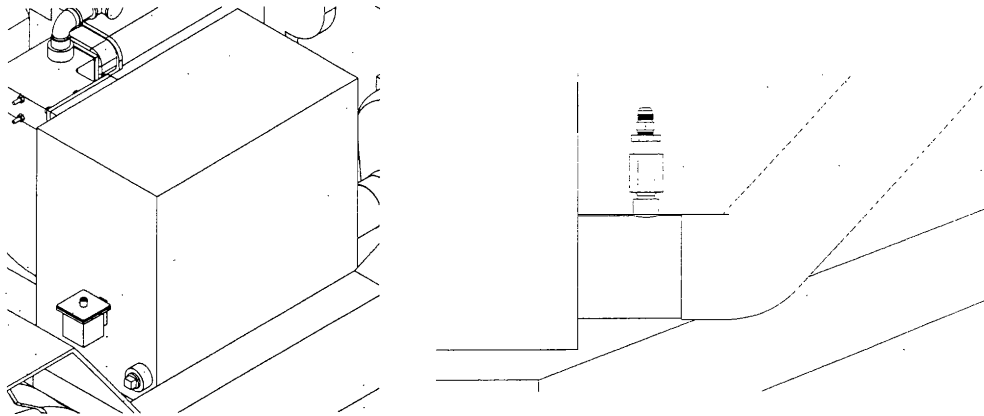
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EXHAUST SYSTEM



- [WEEKLY] 1. () Check that the exhaust is discharged in front of the engine cooling fan on the side opposite the tram area.



- [WEEKLY] 2. () Check that the scrubber tank is in good condition with no open holes due to corrosion and all plugs are in place.
- [WEEKLY] 3. () Check that exhaust scrubber outlet piping is in place and properly secured to the exhaust diffuser.

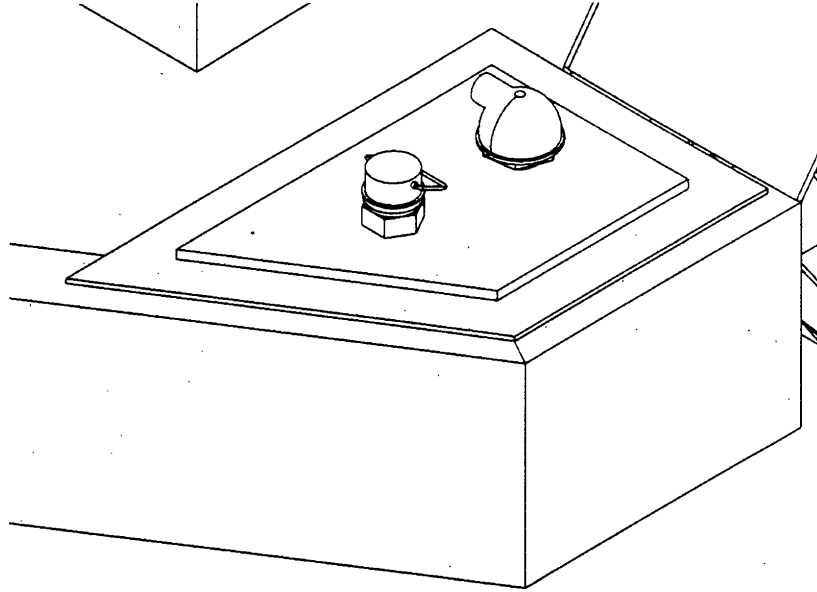
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FUEL SYSTEM

- [WEEKLY] 1. () There are no fuel leaks.
- [WEEKLY] 2. () The fuel vent system is operative and the vent is not plugged.
- [WEEKLY] 3. () The fuel fill system is self-closing and is attached to the tank in a manner which will prevent loss during refueling.



- [WEEKLY] 4. () Auxiliary fuel tank capacity has not been added to the vehicle.
- [WEEKLY] 5. () Fuel filters are properly installed and are not damaged.
- [WEEKLY] 6. () The fuel injection rate adjustment mechanism and the engine governor setting are locked and sealed. An additional lockwire using two bolts has been installed. See Figure 1 at top of next page.

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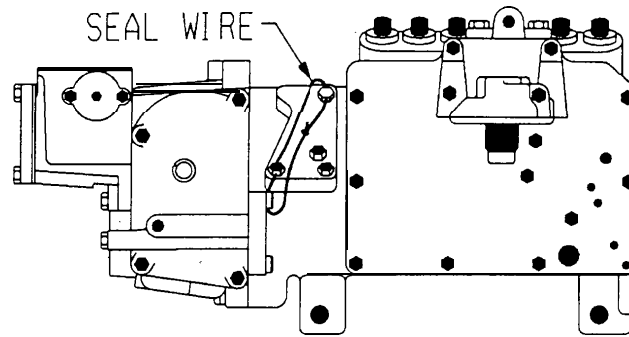
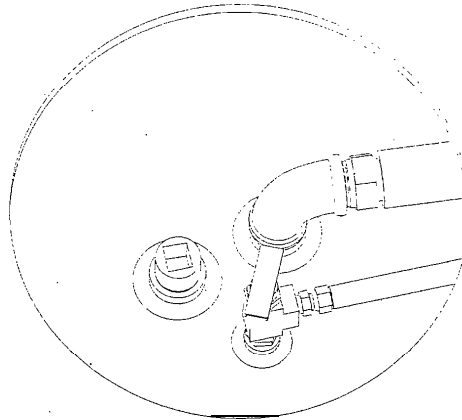


FIGURE 1



- [WEEKLY] 7. () The fuel shut-off valve in the fuel supply line is operable.
- [WEEKLY] 8. () The drain plug in the fuel tank is locked in position. (Pipe plugs are considered "locked in position" when tight.)
- [WEEKLY] 9. () Fuel lines are not routed near or connected to hot exhaust components and are protected from external damage.
- [WEEKLY] 10. () Fuel lines are adequately secured.

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WARNING: Brake tests are to be conducted on a relatively level surface, away from traffic areas where other machines or persons may be moving about. Consider the possible consequences of testing a machine with assumed braking inadequacies, and select an area where the test machine would not cause an accident due to these inadequacies.

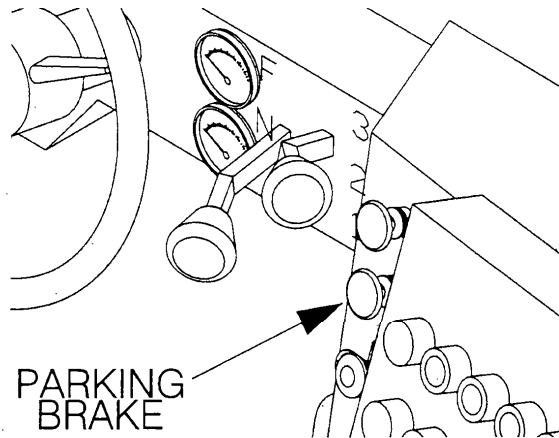
[WEEKLY] 1. () Service Brake Test.

- a. With the engine operating and the machine stationary, apply the service brake.
- b. Release all other brakes.
- c. Place transmission gear selector in 2nd gear and the directional control selector in forward or reverse.
- d. Depress the accelerator to full throttle, allowing the engine to put the transmission torque converter into a stall condition.

If the service brake is operating satisfactorily, the unit will not move when the above procedure is followed. If movement is detected, the service brake must be repaired or adjusted.

[WEEKLY] 2. () Parking Brake Test.

- a. With the engine operating and the machine stationary; apply the parking brake.



- b. Release all other brakes.
- c. Place the transmission gear selector in 2nd gear and the directional control selector in forward or reverse.
- d. Depress the accelerator to full throttle, allowing the engine to put the transmission torque converter into a stall condition.

If the parking brake is operating satisfactorily, the unit will not move when the above procedure is followed. If movement is detected, the parking brake must be repaired or adjusted.

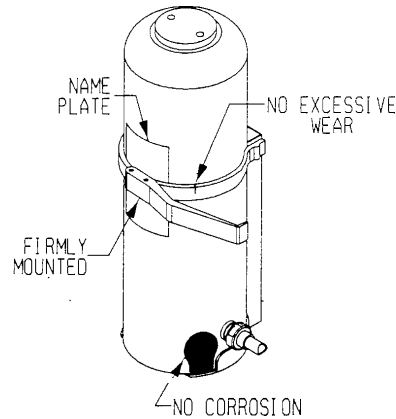
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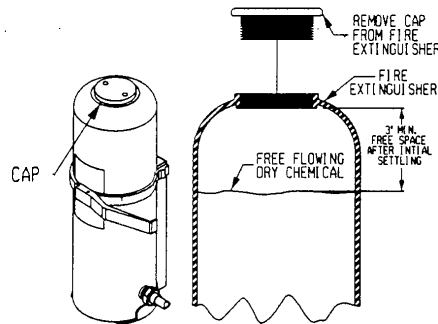
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D. MISCELLANEOUS:

- [WEEKLY] 1. () The machine is equipped with at least one 5 lb. dry chemical fire extinguisher. All fire extinguishers are fully charged.
2. () Fire suppression system is charged and in good condition. The fire suppression system is operable as determined by the following checks:
- a. () Note general appearance of system components for mechanical damage or corrosion.
- b. () Check nameplate(s) for readability.



- c. () Remove till cap.



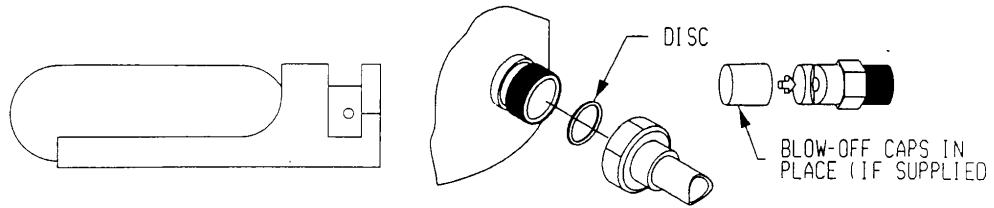
- d. () Make certain tank is filled with free-flowing dry chemical to a level of not more than 3 inches from the bottom of the fill opening. If dry chemical level is more than 3 inches, replace cap and heft bottle. (Note: heft means to shake the bottle up and down slightly, this according to the manufacture, will loosen settled dry chemical and make it free flowing.) Remove fill cap and measure level again.

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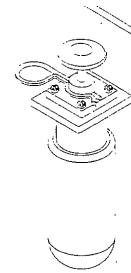
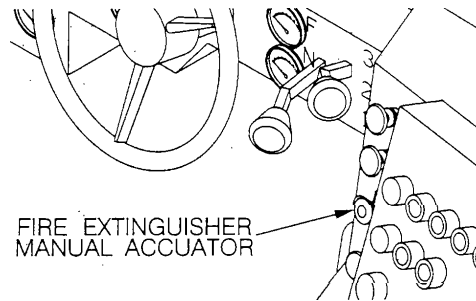
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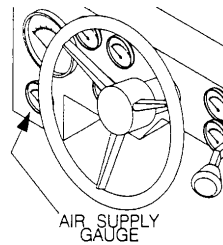
- e. () Secure fill cap, hand tighten,



- f. () Remove expellant gas cartridge and examine disc-seal should be unruptured.
- g. () Return cartridge to pneumatic actuator/cartridge receiver, hand tighten and secure in bracket.
- h. () Check hose, fittings and nozzles for mechanical damage and cuts.
- i. () Check nozzle openings - slots on nozzle should be closed (capped) with silicone grease or cover with plastic blow-off caps.



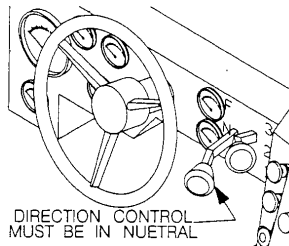
- j. () Remove cartridge from manual actuator(s), and examine disc-seal should be unruptured.
- k. () Return cartridge to manual actuator(s) assembly, hand tighten.
- l. () Replace any broken or missing lead and wire seals.



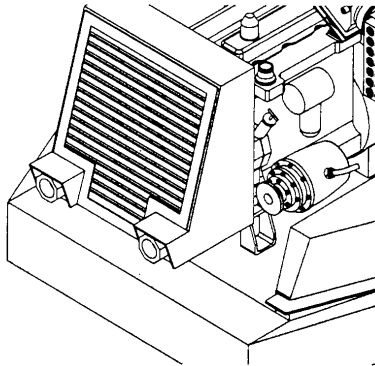
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- [WEEKLY] 3. () The main air pressure gauge is operable.
- [WEEKLY] 4. () The machine has an MSHA Part 36 approval plate attached to it in the operator's compartment.
- [WEEKLY] 5. () The approval plate specifies a ventilation rate of 11,500 CFM for metal/non-metal, 6,500 CFM for coal.
- [WEEKLY] 6. () A completed dust approval plate specifying the dust approval number is attached to the machine in the operators compartment.
- [WEEKLY] 7. () The warning device is operable.
- [WEEKLY] 8. () The remote engine stop at the drill station shuts the engine down.
- [WEEKLY] 9. () The hydraulic panic bars at the drill station and the ATRS station disable the machine hydraulically i.e. all hydraulic functions cease to operate.
- [WEEKLY] 10. () The engine will not turn over unless the directional control selector is in the neutral position.



- [WEEKLY] 11. () Front and rear running lights are operable.

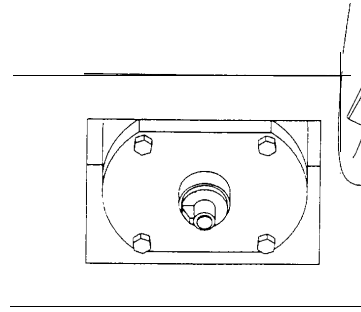
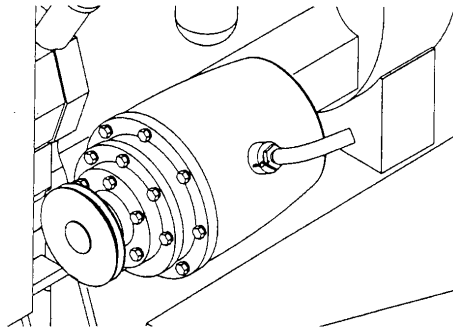


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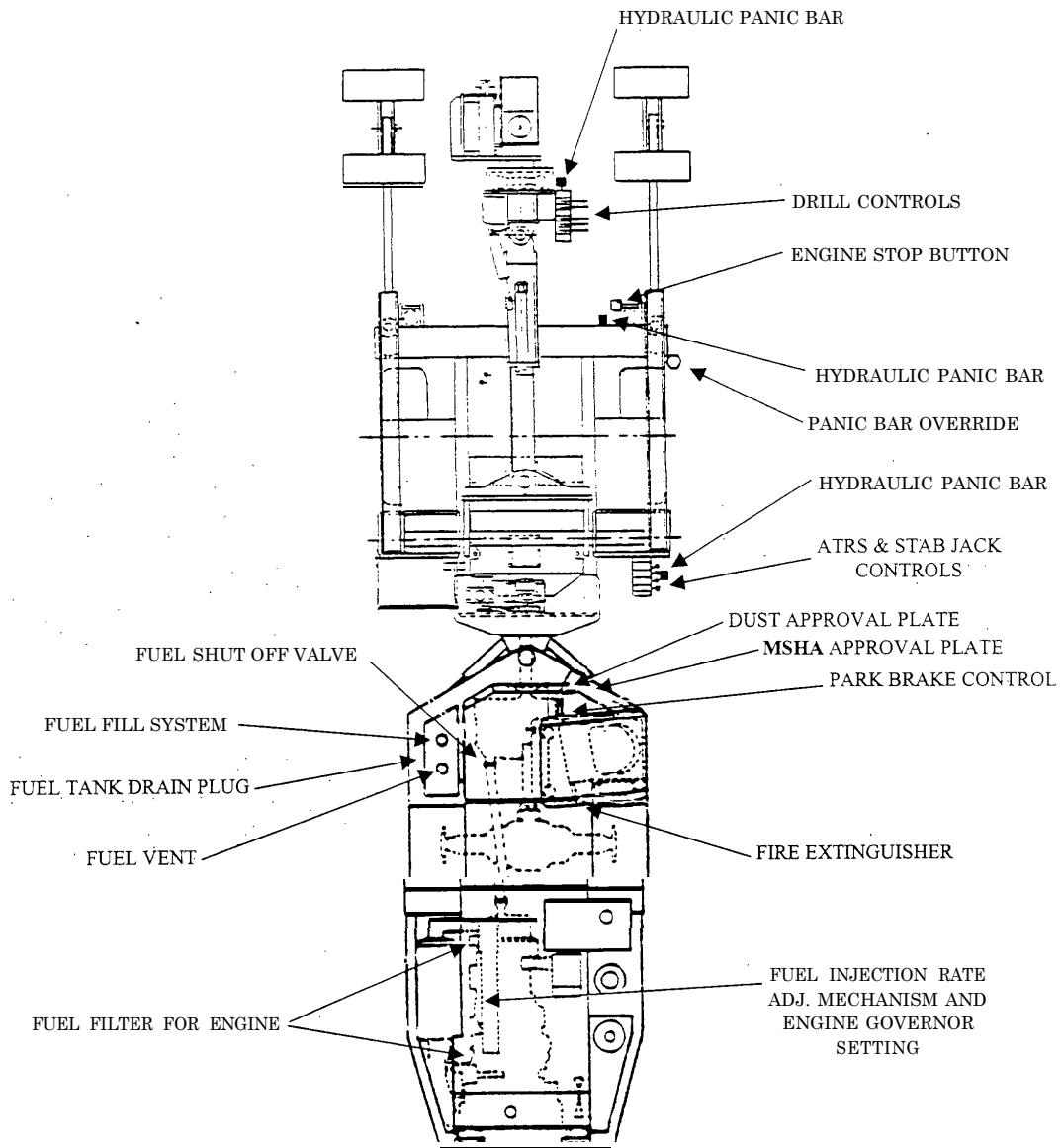
[WEEKLY] | 2. () Electrical enclosures are properly sealed, and wiring hoses are in good condition.



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